ABSTRACT

Communication takes important role in our daily life, because people always need to interact with one another. Computer network as a means of communication, keep making innovations to fulfill user's needs. As a matter of fact, we can build computer network should be connected each other.

The common method to make computer network is Local Area Network (LAN). In LAN, we can connect workstations (Computer used by user) so if can be functioned as media communication.

Because user's needs get higher, and LAN technology have some constraints, like unflexible network administration, bad network performance, and low security, then experts try to develop new communication technology called Virtual Local Area Network.

Virtual Local Area Network or VLAN, based on logical clustering for users, clusters can be defined because they have some function, and part or application without knowing user's position in the network. VLAN configuration is logical, rather than physical. In LAN user's are divided based on relation of Hub or Port in Router usage. This topology means the division are only between existing hubs, where usually located in the same floor (example) and not only based on similarity of user level.

In VLAN, we can group the users where they have different location in a wide network, using virtual technology.